

## AF9000NE Silicone Antifoam

### Description

AF9000NE antifoam is a 100% silicone compound that may be considered for use as an antifoam in many non-aqueous indirect food additive and industrial applications. AF9000NE silicone antifoam compound can provide excellent foam control in highly alkaline and highly acidic systems as well as neutral systems and typically exhibits improved efficiency and longevity over most conventional antifoam compounds.

### Key Features and Typical Benefits

- Advanced defoamer technology with improved efficiency over most conventional silicone antifoams.
- 100% silicone
- AF9000NE antifoam is compositionally compliant with several 21 CFR chapters as an indirect food additive
- Certified Kosher and Parve
- Halal Certified <sup>(1)</sup>

(1) This product is produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). This product is in compliance with the halal requirements under Islamic laws.

### Typical Physical Properties

Property	Value
Silicone/Silica Content, %	100
Density, g/cm <sup>3</sup>	1.02
Specific Gravity @ 25°C/77°F	1.01
Viscosity @ 25°C (77°F) cps	2500
Flash Point, Pensky-Martens Closed Cup ASTM D 93, °C	>204

Typical properties are average data and are not to be used as or to develop specifications.

### Solubility

Soluble in aliphatic, aromatic and chlorinated solvents. Typical solvents are toluene, xylene, mineral spirits, hexane, heptane, naphtha, methlene, chloride, 1,1,1-trichloroethane, amylacetate, methylethylketone, 2-ethyl hexanol, ethyl ether and cyclohexane

### Storage Stability

Mild agitation should be employed prior to use to disperse solids uniformly.

### **Potential Applications**

AF9000NE silicone antifoam compound may be considered for use in the following applications:

- Adhesive manufacture
- Chemical processing
- Ink manufacture
- Paint manufacture
- Resin polymerization
- Formulating antifoam emulsions
- Insecticides/Herbicides
- Wool fats

### **Petroleum Processing**

- Gas scrubbing
- Glycol
- Vacuum tower unit
- Propane deasphalting
- Udex units

### **Food Processing**

- Corn oil manufacture
- Deep-fat frying
- Esterification of vegetable oil
- Fermentation
- Antifoam formulating
- Yeast processing

### **General Considerations for Use**

AF9000NE silicone antifoam compound may be used as received or diluted prior to use. Dilution or dispersion of the material prior to use, either in solvent or in one of the foaming ingredients can provide an excellent means for incorporating low concentrations of silicone antifoam accurately and economically into a non-aqueous system. Prediluted solutions should be kept under agitation or mildly agitated before use. Such dilution or dispersion may provide greater ease of handling and more effective use of silicone.

AF9000NE silicone antifoam compound may also be metered into continuous process systems.

When evaluating AF9000NE antifoam, it is suggested that evaluation be started at 10ppm silicone. This starting point represents an average level of silicone found to be effective in many applications. The level can then be adjusted in either direction to determine the minimum effective concentration for the specific system requiring foam control.

For applications related to food processing, consult applicable FDA or USDA regulations for the maximum permissible level of silicone.

**Patent Status**

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

**Product Safety, Handling and Storage**

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

**Limitations**

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

**Contact Information**

For product prices, availability, or order placement, contact our customer service at [Momentive.com/CustomerService/](http://Momentive.com/CustomerService/)

For literature and technical assistance, visit our website at: [www.momentive.com](http://www.momentive.com)

**DISCLAIMER:**

**THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.**

Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other

document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

**Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.**